



AD-1200 (Black)

OPERATING MANUAL



DVD

VIDEO PLAYER

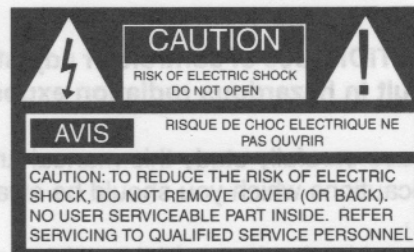
Safety Precautions



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



WARNING:

DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DUE TO THE HIGH RISK OF FIRE OR ELECTRIC SHOCK, DO NOT OPEN THE CABINET DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT THIS.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, AND FULLY INSERT.

ATTENTION:

POUR EVITER LES CHOC ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOUD.

CAUTION:

This Digital Video Disc Player employs a Laser System. To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

DO NOT STARE INTO BEAM.

FCC NOTICE:

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location, or contact APEX Digital Inc. Only qualified service personnel should remove the cover.

This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant with the FCC Rules, Part 15. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, this is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

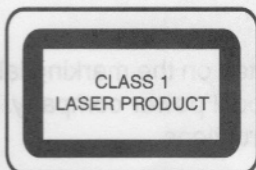
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING:

Changes or modifications made to this equipment, not expressly approved by APEX or parties authorized by APEX will void all the manufacture warranties.

THE REGION CODE FOR THE UNIT IS 1.



Since it is very usual for DVD movies to be released at different times in different regions of the world, all players have region codes and disks can have an optional region code. If you load a disk of a different region code to your player, you will see the region code notice on the screen. The disk will not play, and should be unloaded.

For Customer Use:

In spaces provided below, record the Model and Serial No. located on the rear panel of your DVD video player.

Model No. _____ Serial No. _____

Retain this information for future reference.

Safety Information

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Please carefully study this manual and always keep it available. There are, however, some installation and operation precautions which you should be aware of.

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
Exception: A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the product in the cleaning description otherwise required in 131.8(5).
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings - This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Protective Attachment Plug - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

15. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size or grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 131.1.

16. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

18. Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or damaged in any way, and

f. When the product exhibits a distinct change in performance - this indicates a need for service.

22.Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23.Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

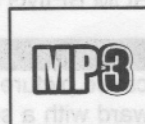
24.Wall or Ceiling Mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Introduction

Your new APEX Digital AD-1200 DVD player is designed for you to enjoy all forms of disc media. Your player will allow you to enjoy full-length motion pictures with "at-the-movies" picture and cinema quality sound.

Your new player also supports CD, VCD, and MP3. Your player also has several unique features, including an S-video output (for greater picture clarity), Parental Control (to prevent children from viewing inappropriate content), and Kodak Picture CD compatibility (so you can show photos on your TV). This is a truly multimedia machine designed for the multimedia world to enjoy. The digital age has never been easier to enjoy than with APEX Digital.



UNPACKING

If you need to ship your DVD player, the original carton and packing comes in handy. You should keep them in case you need to re-use them. For best protection, repack the unit as it was packed at the factory. First, inventory the contents of your DVD video player accessory package. It should have:

- DVD video player (1)
- Remote control (1)
- RCA cables (1 each in yellow, red, and white)
- AD-1200 Owner's manual
- Size AA batteries (2)

If any item is damaged or missing, please inform your retailer immediately. Owner's manuals in other languages are available at <http://www.apexdigitalinc.com>.

WHERE TO PLACE YOUR DVD PLAYER

You should place the unit on a firm, flat surface. It should not be too close to a VCR, stereo, or large speakers, as the magnetic flux from these devices may cause distortion in the picture.

If placed in a cabinet, please allow at least 1 inch (2.5 cm) of free space all around the player for proper ventilation. **Caution:** Sliding unit along a shelf or other surface may scuff or scratch. Apex Digital shall not be responsible for any surface damage that may occur.

TO OBTAIN A CLEAR PICTURE

The DVD video player is a precision device. If the optical pick-up lens and disc drive parts become dirty or worn down, picture quality will become poor. To obtain a clear picture we recommend regular inspection and maintenance every 1,000 hours of use (roughly 500 2-hour movies) depending on the operating environment.

Notes on Discs

HOW TO HANDLE, CLEAN, AND STORE DISCS.

HANDLING DISCS

- DO NOT TOUCH THE PLAYBACK SIDE OF THE DISC.
- DO NOT ATTACH PAPER OR TAPE TO DISCS.

NOTE: APEX DIGITAL INC. SHALL NOT BE RESPONSIBLE FOR DAMAGE THAT MAY OCCUR TO A DISC FROM BEING OPERATED IN THE PLAYER.



CLEANING DISCS

- Fingerprints and dirt on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
- If you cannot wipe the dirt off, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as paint thinner, benzene, commercially available cleaners or anti-static spray for vinyl LP's.



STORING DISCS

- Do not store discs in places subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

PLAYABLE DISCS

This DVD video player can play back the following discs.

	Disk Mark	Contains	Disc Size	Maximum playback time
DVD video disc		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
Video CD		Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CD		Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes
MP3 CD	MP3	Audio	12 cm	Up to 10 hours
KODAK Picture CD		Spec.	12 cm	

NOTES ON REGIONAL NUMBERS

DVDs are divided into separate regions. The United States and Canada are designated as region 1 DVD. Your DVD video player plays region 1 DVDs only. It will also play all region VCDs.

TYPE OF TV SYSTEM

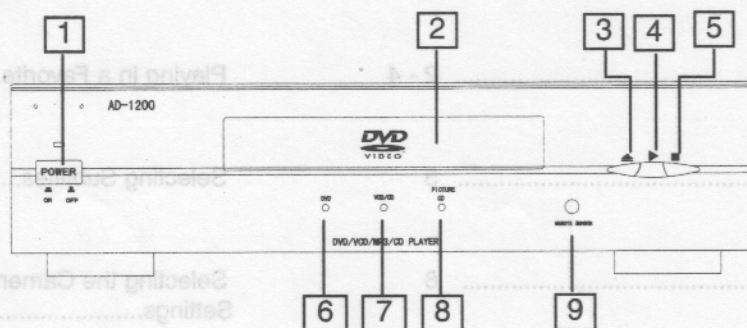
Connect this DVD video player to a TV compatible with the NTSC or PAL/3.58 system. APEX DIGITAL players will play VCD format discs. Most VCD's are PAL. VCD's are not region specific (no code) and APEX DIGITAL players can play them because of the PAL compatibility feature.

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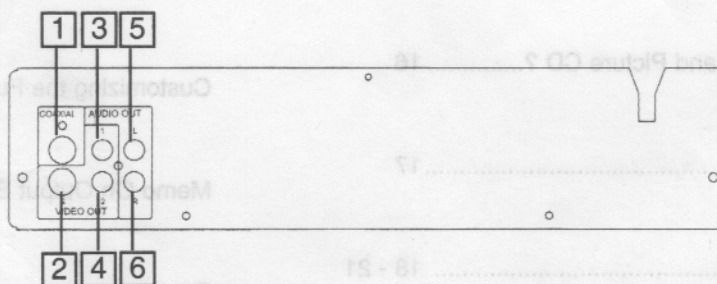
Identification of Controls

FRONT PANEL



- | | | | |
|---|--------------|---|----------------------------|
| 1 | POWER ON/OFF | 6 | DVD INDICATOR LIGHT |
| 2 | DVD TRAY | 7 | VCD/CD INDICATOR LIGHT |
| 3 | OPEN/CLOSE | 8 | PICTURE CD INDICATOR LIGHT |
| 4 | PLAY | 9 | REMOTE SENSOR |
| 5 | STOP | | |

REAR PANEL



- | | |
|---|------------------------------|
| 1 | DIGITAL AUDIO-COAXIAL OUTPUT |
| 2 | S-VIDEO OUTPUT |
| 3 | COMPOSITE VIDEO OUTPUT 1 |
| 4 | COMPOSITE VIDEO OUTPUT 2 |
| 5 | ANALOG AUDIO OUTPUT L |
| 6 | ANALOG AUDIO OUTPUT R |

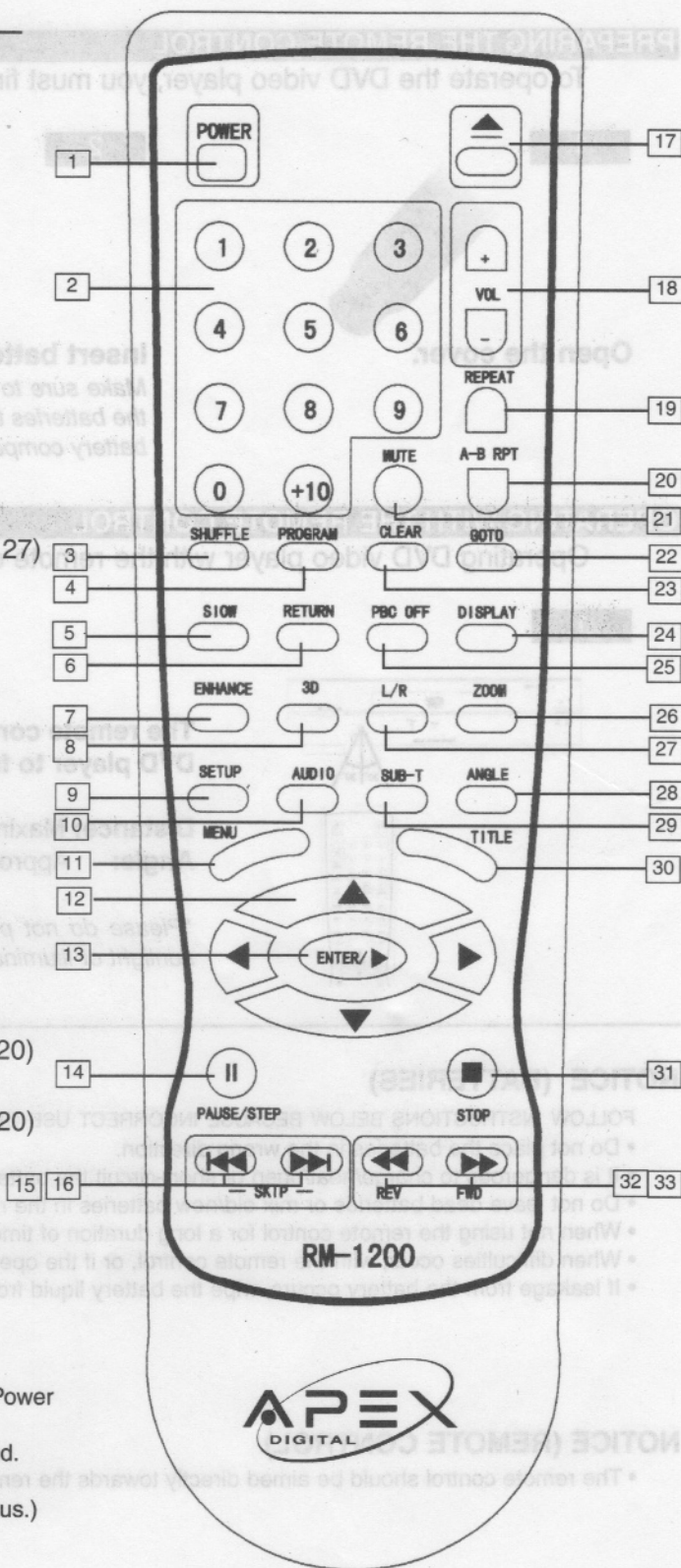
Remote Control

THE INSTRUCTIONS IN THIS MANUAL DESCRIBE THE FUNCTIONS ON THE REMOTE CONTROL.

- | | |
|--|------------------------------|
| 1. POWER (PAGE 18) | 18. VOLUME(PAGE 9) |
| 2. NUMBERS (PAGE. 23) | 19. REPEAT (PAGE. 24) |
| 3. SHUFFLE (PAGE 25) | 20. A-B REPEAT |
| 4. PROGRAM (PAGE 27) | 21. MUTE(PAGE 9) |
| 5. SLOW MOTION (PAGE. 21) | 22. GOTO (PAGE 23) |
| 6. RETURN | 23. CLEAR (PAGE 27) |
| 7. ENHANCE (PAGE 26) | 24. DISPLAY (PAGE 33) |
| 8. 3D (PAGE 24) | 25. PBC OFF (16, 23, 25, 27) |
| 9. SETUP (PGS 34,35) | 26. ZOOM (PAGE 26) |
| 10. AUDIO (PAGE 29) | 27. L/R (PAGE 24,30,32) |
| 11. MENU (PAGE. 23,25,30,32) | 28. ANGLE (PAGE 29) |
| 12. DIRECTION KEYS
(PGS. 19,22,23,26,27,30,32,35) | 29. SUBTITLE (PAGE 28) |
| 13. ENTER
(18-21, 23,25,27,30, 32,34,35) | 30. TITLE (PAGE 22) |
| 14. PAUSE/STEP (PAGE 19) | 31. STOP (19, 21, 34) |
| 15. PREV SKIP (17, 22) | 32. FAST REVERSE (17, 20) |
| 16. FWD SKIP (17, 22, 25) | 33. FAST FORWARD (17, 20) |
| 17. OPEN/ CLOSE (PAGE. 18) | |

NOTES

- Please turn the master power switch on the DVD Video player. Power button on this remote control unit is for standby power only.
- **MUTE**- Cut off sound momentarily. Press again to reinstate sound.
- **VOLUME**- controls the audio output from the DVD player.
(VOLUME control is only available in audio analogue output status.)



PREPARING THE REMOTE CONTROL

To operate the DVD video player, you must first place the batteries in the remote control.

1

Open the cover.

2

Insert batteries (AA size).

Make sure to match the + and - on the batteries to the marks inside the battery compartment.

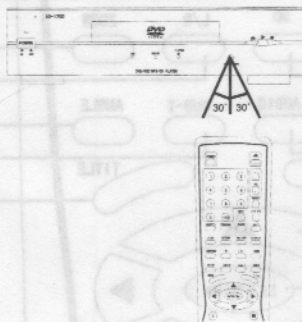
3

Close the cover.

OPERATING WITH THE REMOTE CONTROL

Operating DVD video player with the remote control.

1



The remote control must point at the remote sensor, in order for the DVD player to function correctly.

Distance: Maximum of 7 m from the front of the remote sensor.

Angle: Approximately 30° from each direction.

**Please do not place the remote sensor towards any light source such as direct sunlight or illumination. The DVD video player will malfunction, if you do so.*

NOTICE (BATTERIES)

FOLLOW INSTRUCTIONS BELOW BECAUSE INCORRECT USE OF BATTERIES MIGHT CAUSE THEM TO LEAK OR CORRODE.

- Do not place the batteries in the wrong direction.
- It is dangerous to charge/heat/open or short-circuit the batteries.
- Do not leave dead batteries or mix old/new batteries in the remote control.
- When not using the remote control for a long duration of time, remove the batteries.
- When difficulties occur, with the remote control, or if the operating range becomes reduced, then replace the batteries.
- If leakage from the battery occurs, wipe the battery liquid from the battery compartment, then replace the batteries.

NOTICE (REMOTE CONTROL)

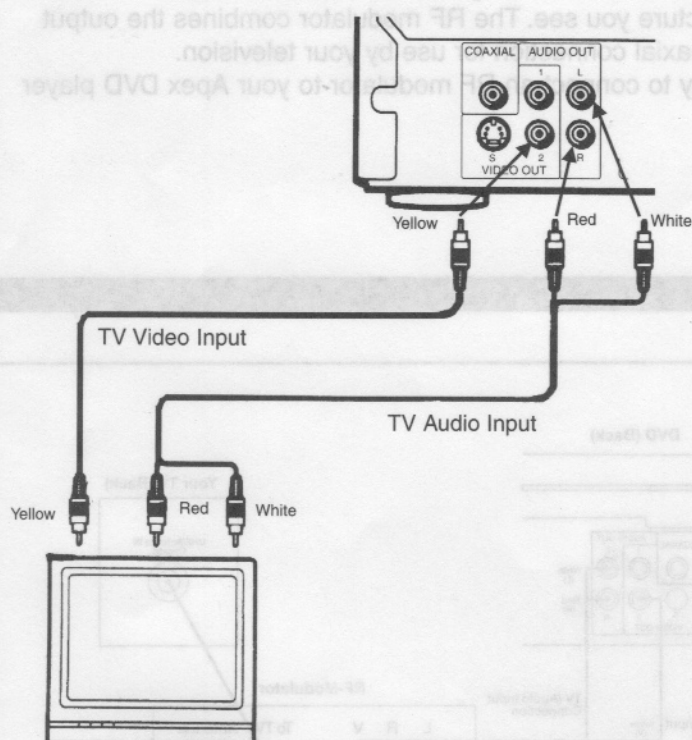
- The remote control should be aimed directly towards the remote sensor of the DVD video player.

Connecting to a TV

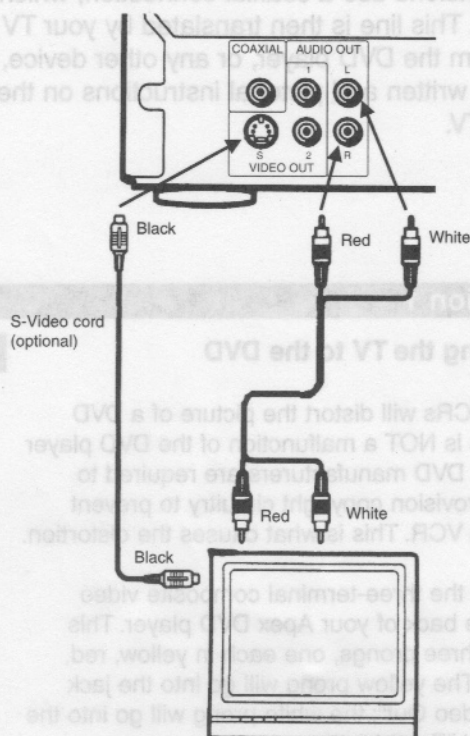
CONNECTING YOUR APEX DIGITAL DVD PLAYER DIRECTLY TO YOUR TELEVISION

The following diagrams will show how to connect your DVD player to your TV.
For further instructions, please consult the owner's manual for your television.

RCA (Composite) Standard Connection



S-Video Connection



Connect the DVD video player with an optional S-Video cable if the TV has an S-video input. Do not connect the yellow video cable if using the S-Video cable.

IMPORTANT NOTICE

- Turn off power and unplug both units before connecting.
- If you connect the DVD video player to a video cassette recorder (VCR), or TV/VCR combination, the playback picture will be distorted because all dvd players incorporate copyright protection circuitry by Macrovision.
- If your TV only has a cable antenna connection and no video inputs to connect your TV to the DVD player, you will need to purchase an RF Modulator from your dealer (see page 12 for further details).

Connecting to a TV using a RF Modulator

Many older televisions do not have the newer component-video, S-video, or RCA connections that allow you to optimize DVD technology. While it would be advised to purchase a newer television in order to take full advantage of the digital quality of DVD's, it is possible to connect an older television to a DVD player. This connection requires a device called an RF modulator.

First, it is necessary to determine whether or not your TV needs a RF modulator. Look at the back of your TV. If you see three input connectors lined up in a row, in the colors of yellow, red, and white, then you will not need an RF modulator. If you see a connector labeled "S-video", then you will not need an RF modulator. If you do not have either of these connectors, then you will need to purchase an RF modulator from a home electronics retailer. Older televisions use a coaxial connection, which combines all of the video signal from an exterior source into a single line. This line is then translated by your TV into the picture you see. The RF modulator combines the output signals from the DVD player, or any other device, into the coaxial connection for use by your television. Below are written and pictorial instructions on the proper way to connect an RF modulator to your Apex DVD player and your TV.

Connection 1

Connecting the TV to the DVD

Figure 1

Note: All VCRs will distort the picture of a DVD player. This is NOT a malfunction of the DVD player or VCR. All DVD manufacturers are required to install macrovision copyright circuitry to prevent copying via VCR. This is what causes the distortion.

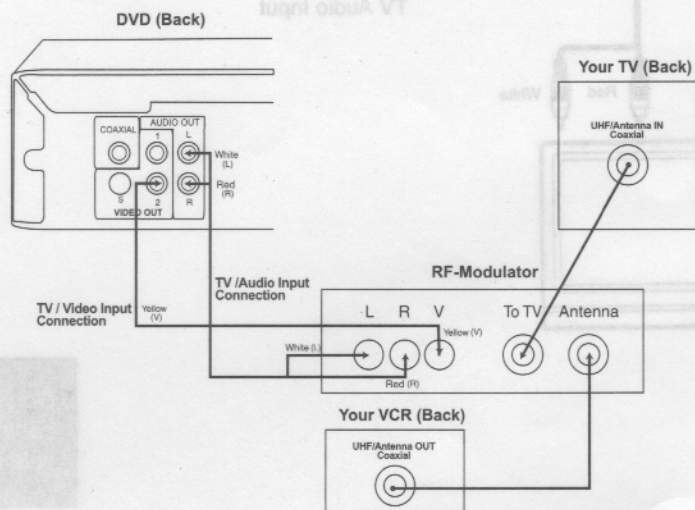
1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

5) Make sure your TV is set to the appropriate



channel before using your DVD player. In most cases, this is channel 3 or 4.

Connecting to a TV using a RF Modulator

Continued

Connection 2

Connecting the TV to the DVD through the Cable or Satellite Box

Figure 2

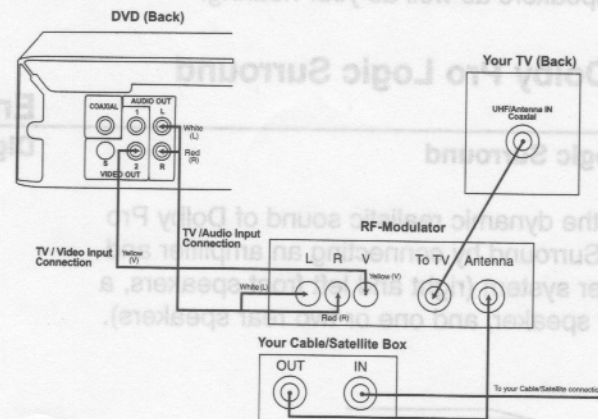
1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your Cable or Satellite receiver to the "Antenna In" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

5) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4.



Connection 3

Connecting the TV, DVD, VCR, and Cable or Satellite Box

1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

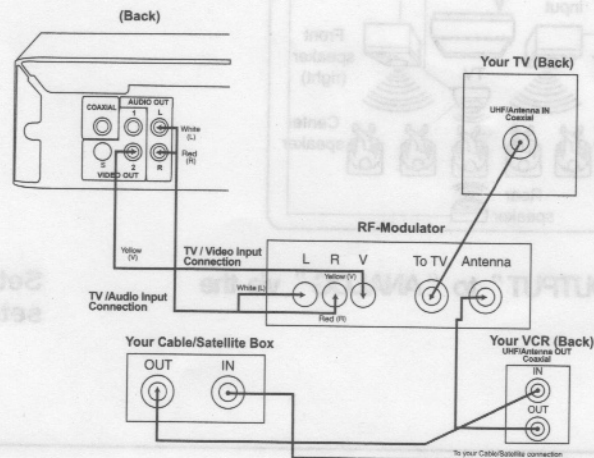
2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your cable or satellite receiver to the "Antenna In" jack on the back of your VCR. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator.

5) Connect a coaxial cable from the "To TV" jack

Figure 3



on the RF modulator to the jack on the back of your TV.

6) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4. Also make sure

that the VCR is set to the appropriate channel, as well. This selector is usually on the back of your VCR. Consult your VCR manual for further information.

Connecting to Optional Equipment

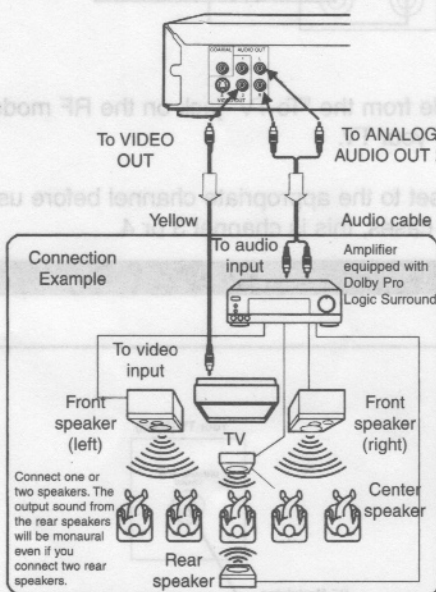
WARNING

DO NOT set "AUDIO "Digital to PCM/RAW via the SETUP MENU displays, unless connecting to (Via the COAXIAL jack) a receiver that has the Dolby Digital/DTS decoding functions. Take precaution for high volume sounds may damage your speakers as well as your hearing.

Enjoying Dolby Pro Logic Surround Sound

Dolby Pro Logic Surround

Enjoy the dynamic realistic sound of Dolby Pro Logic Surround by connecting an amplifier and speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

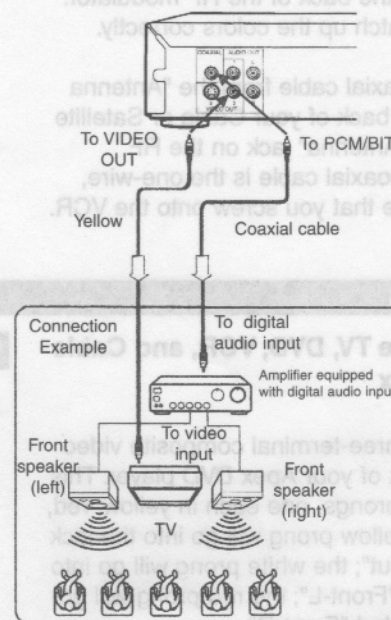


Set "AUDIO OUTPUT" to "ANALOG" via the setup menu.

Enjoying Digital Stereo Sound

Digital Stereo

Enjoy the dynamic sound of Digital Stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).



Set "AUDIO OUTPUT" to "Digital" via the setup menu.

IMPORTANT NOTICE

- Refer to the manual of the connected audio receiver.
- Turn off power and unplug both units before connecting.
- Due to the wide dynamic range of sound output of the DVD video player, adjust the volume of your receiver to a comfortable listening level to avoid speaker damage.

Enjoy Dolby Digital or DTS

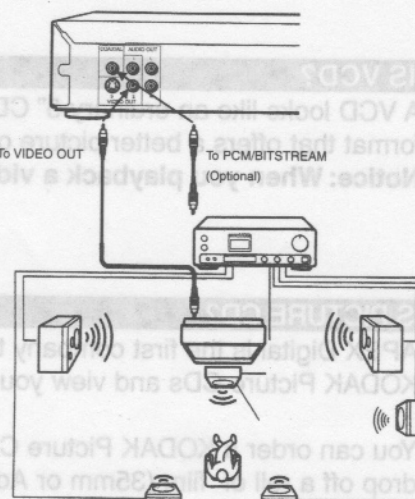
Dolby Digital/DTS

Dolby Digital and DTS programming can deliver surround sound with five discrete full range channels plus a sixth channel for a subwoofer. You can enjoy your APEX Digital DVD player with a Dolby Digital or DTS Digital Surround Sound System. All you need is to connect your DVD player to a Dolby Digital/DTS receiver or a Dolby Digital Ready receiver with an external decoder.

HOW TO SETUP THE DIGITAL AUDIO OUTPUT?

1. Press **Setup** button on the Remote Control.
2. Press the **Right Arrow Key** button to highlight the **Audio setting** and press the **Enter** button to select.
3. Select **DOLBY DIGITAL/DTS Analog Out** column using the **Down Arrow Key**. Make sure the display is set to **Off**.
4. Select **DOLBY DIGITAL/DTS Digital Out** Column, press the **Enter** button continually until it displays **RAW**.
5. Press **Setup** again to **Exit**.

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DVD video discs are copy protected, and any recordings made from these discs will be distorted.

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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

NOTICE

- Do not connect the PCM/BITSTREAM jack of the DVD video player to the AC-3 RF input of a Dolby Digital receiver. Instead, connect to the "DIGITAL" or "COAXIAL" input of a Dolby Digital/DTS receiver or Processor. The input of the A/V receiver is not compatible with the PCM/BITSTREAM jack and is primarily for Laserdiscs only.
- Connect the PCM/BITSTREAM jack of the DVD video player to the "DIGITAL" or "COAXIAL" input of a Dolby Digital/DTS receiver or Processor.
- Refer to the manual of the connected TV.
- Turn off the power and unplug both units before setting up any connections.
- Due to the wide dynamic range of sound output of the DVD video player, adjust the volume of your receiver to a comfortably modest listening level to avoid any speaker damage.

What is MP3, VCD, and Picture CD?

WHAT IS MP3?

MP3 refers to a new format of music files available for playback over the internet. Because of the popularity to download music from MP3 websites on to ones home computer. APEX Digital is the first company to offer in a home DVD player, the ability to play back CD-R discs recorded with MP3 audio files.

WHAT IS VCD?

A VCD looks like an ordinary 5" CD with the same digital audio quality with video capability. It is a new video format that offers a better picture quality than VHS with over an hour of playing time.

Notice: When you playback a video CD you must turn PBC OFF in order to stop the chapter/scene.

WHAT IS PICTURE CD?

APEX Digital is the first company to offer, in a DVD player, the ability to playback most JPEG files including KODAK Picture CDs and view your photos on a television in the comfort of your home from a CD-RW!

You can order a KODAK Picture CD simply by checking the box on the photofinishing envelope when you drop off a roll of film (35mm or Advanced Photo System - APS color print film) at the time of processing. When your order is returned, you receive your prints, negatives and full roll of pictures safely stored on a KODAK Picture CD. With your AD -1200, each KODAK Picture CD brings you the ability share your photos with your family, friends, and/or business associates.

MP3 Operation

You can play an MP3 CD.

Insert an MP3 CD, the DVD player will initialize the disc and the directory will be displayed on the TV screen.

MP3 Track1/119 00:00:32

- | | |
|-----------|------------|
| 1 TRACK01 | 8 TRACK08 |
| 2 TRACK02 | 9 TRACK09 |
| 3 TRACK03 | 10 TRACK10 |
| 4 TRACK04 | 11 TRACK11 |
| 5 TRACK05 | 12 TRACK12 |
| 6 TRACK06 | 13 TRACK13 |
| 7 TRACK07 | 14 TRACK14 |

1. Press **</>** to select the column of MP3 file .
Press **^/v** to select the MP3 file on a list of column.
2. Press number buttons 1-10 to select the track which you want ,the product will play the selected track. If the track number is bigger than 10 ,press [10+],then press the next number.
3. Press **ENTER** to play the MP3 file. Press **▶▶** or **◀◀** during playback to skip the tracks. If you need to return to the main directory , press **MENU** button.

NOTICE

- Fast Forward **▶▶** or **◀◀** Fast Reverse are not available during MP3 playback.
- The menu will not refresh when select a track by press its assigned number with the number buttons,the menu will refresh when you select a track using the **^/v/</>** button.

Playing Back a Disc

HOW TO PLAYBACK A DISC.

Basic Playback (see page 11 -15 for connections details)

How to playback DVD video discs or VIDEO CDs

- Turn on the TV and choose the video input source which is connected to the DVD video player.

How to enjoy the sound from the audio system

- Turn on the audio system and choose the input source which is connected to the DVD video player.

1. Press the **POWER** button displayed on the front panel.

The POWER indicator will illuminate green, as the DVD video player turns on.

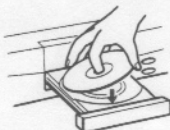
POWER

2. Press the **OPEN/CLOSE** button.

This will open the disc tray.



3. Place the disc on the disc tray.



With the playback side down.

Notice

- A disc may be damaged if it is not correctly placed on the guides in the disc tray, this may also cause the DVD video player to malfunction.
- Do not force or place anything other than DVD video disc, VIDEO CD, audio CDs, or MP3 CD on the disc tray.

4. Press **PLAY**

After closing the disc tray playback will start. As the DVD video player is reading the disc, a menu will appear on screen.



Notice

- Refer to the "On Video CD" for the playback control (PBC) of the VIDEO CD
- The menu screen will appear automatically or you may access the menu screen by pressing the TITLE button.

NOTICE

- Moving the DVD video player during playback may cause damage to the disc as well as the player.
- To open and close the disc tray, you may only use the OPEN/CLOSE button on the remote control or DVD video player.

FOR A HIGHER QUALITY PICTURE

DVD discs produce a high resolution picture. This may cause some picture artifacts on the TV during playback. The artifacts will vary depending on the TV used with the DVD video player. To control picture artifacts reduce the sharpness setting on your TV when viewing DVD discs.

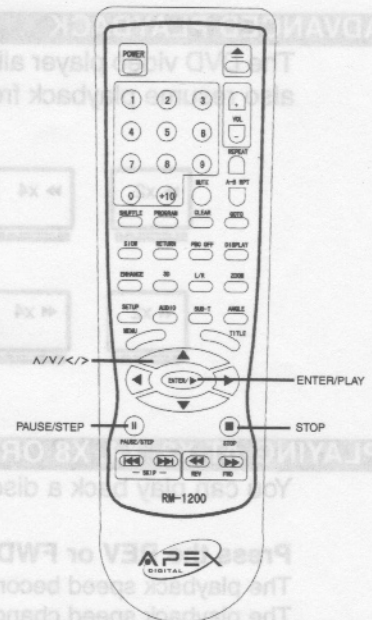
ABOUT DVD VCD CD

DVD VCD CD icons will appear depending on the disc being played back.

DVD: DVD video discs

VCD: Video CDs

CD: Audio CDs

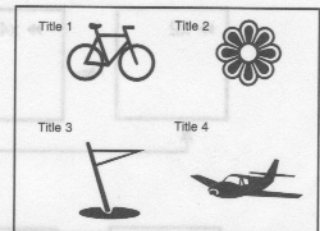
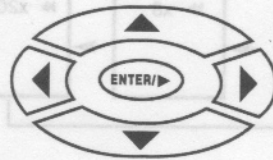


HOW TO START PLAYBACK FROM THE MENU SCREEN

1. Press **^/V/</>** or the number buttons to select the title.

2. Press the **PLAY** button.

The DVD video player will start playback from the title selected.



HOW TO PAUSE PLAYBACK AND PLAY FRAME BY FRAME (STILL PLAYBACK)

Press the **PAUSE** once during playback, then press the **PLAY** button to resume normal playback.

Press the **PAUSE** twice during playback, the picture will advance one frame each time, then press **PLAY** buttons to resume normal playback.

During the still playback the sound is muted. MP3 CD does not have frame by frame feature.

PAUSE/STEP



HOW TO STOP PLAYBACK

Press the **STOP** button.

The DVD video player is stopped.

Press the **PLAY** button to replay.

Press the **STOP** button twice then press the **PLAY** button.

The DVD Video player returns to chapter 1 or track 1.



NOTICE

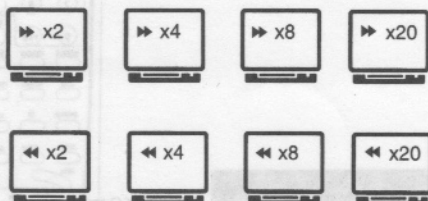
At the completion of each movie a menu screen will appear. Be aware that the on-screen setup menu may damage your TV by permanently burning that image onto the screen. To avoid this, press the **STOP** button at the completion of each movie. You may also decide to setup the **SCREEN SAVER**.

Playing Back a Disc

Continued

ADVANCED PLAYBACK

The DVD video player allows you to playback discs at various speeds. You may also resume playback from the location where you stopped playback.



PLAYING AT X2, X4, X8 OR X20 THE NORMAL SPEED

You can play back a disc at x2, x4, x8 or x20 the normal speed.

Press the REV or FWD button during playback.

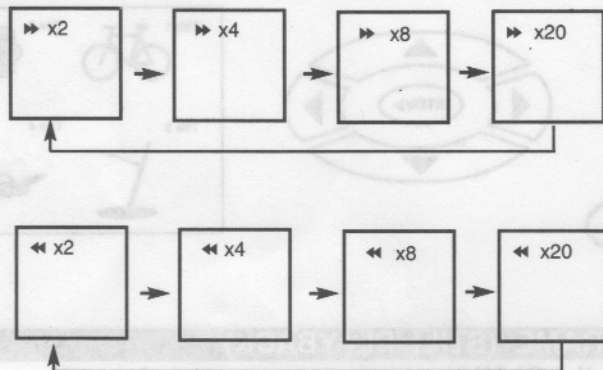
The playback speed becomes 2x the normal speed.

The playback speed changes, each time you press the REV or FWD button.

REV: Fast reverse ◀◀

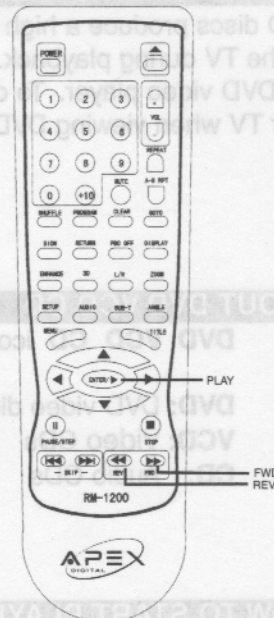
FWD: Fast forward ▶▶

TV SCREEN



- Video CD, Audio CD

The rewind or forward playback alternates between x2, x4, x8, x20 speed.



TO RESUME NORMAL PLAYBACK.
Press PLAY.



NOTICE

- The DVD video player will not play back sound and subtitles during scan reverse and forward playback of DVD video discs. The DVD video player will play sound during fast forward or fast reverse playback of audio CDs.
- The speeds may vary slightly from disc to disc and the x2, x4, x8, and x20 speeds are only approximate speeds.
- MP3, CD and certain DVD do not utilize this feature.

Playing Back a Disc

Continued

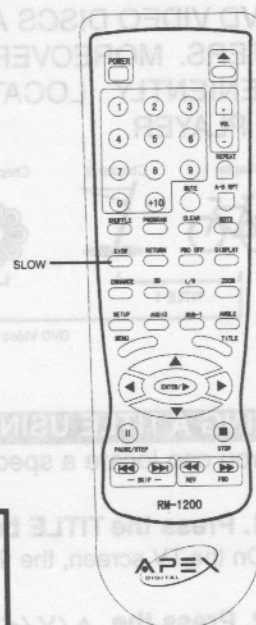
PLAYING IN SLOW-MOTION

A disc can also be played back in slow-motion.



Press the SLOW button during playback

The playback speed becomes 1/2, 1/4, 1/6, or 1/7 each time you press the SLOW button.



NOTICE

- During the slow-motion playback, the sound is muted.
- MP3 CD/CDDA and some discs do not have this feature.
- VCD just have forward slow-motion playback.

TO RESUME NORMAL PLAYBACK.
Press PLAY.

ENTER/▶

RESUMING PLAYBACK FROM THE SAME LOCATION

This DVD video player allows you to stop playback and continue playback later from the same location on the disc.

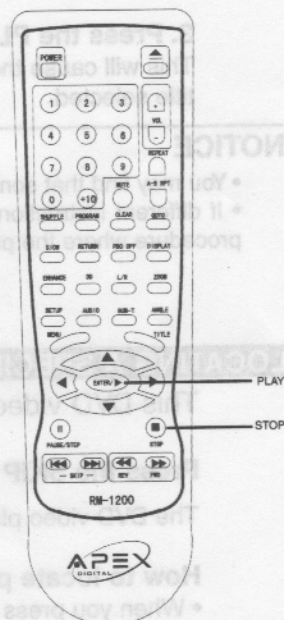
1. Press the STOP button

This will interrupt the playback and the DVD video player will memorize the location where you stopped playback.



2. Press the PLAY button

The DVD video player will resume the playback from the location where you stopped playback.

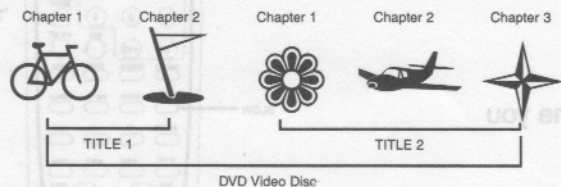


NOTICE

- The following action will cancel the RESUME function:
 - Unplugging the DVD video player after you stop playback.
 - Ejecting the disc.
 - Adjusting/changing the parental lock or selecting a different language setting.
- On occasion depending on the disc, you may experience a difference of location where playback resumes.
- MP3 CDs does not have this feature.

Locating a Specific Title, Chapter or Track

THE DVD VIDEO DISCS ARE NORMALLY DIVIDED INTO TITLES. THE TITLES ARE SUB-DIVIDED INTO CHAPTERS. MOREOVER, VIDEO CD, AUDIO CD AND MP3 CD ARE DIVIDED INTO TRACKS. YOU CAN CONVENIENTLY LOCATE ANY SPECIFIC TITLE, CHAPTER, OR TRACK WITH THIS DVD VIDEO PLAYER.



LOCATING A TITLE USING THE TITLE MENU

You can locate a specific title using the title menu function, if a DVD video disc contains a title menu.

1. Press the TITLE button

On the TV screen, the title menu will appear.

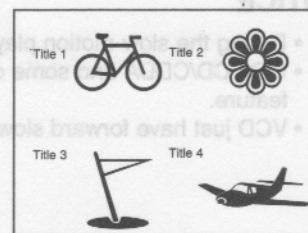
2. Press the $\Delta/\nabla/\leftarrow/\rightarrow$ button to select the title you want

You can also directly locate a specific title by pressing its assigned number with the number buttons.

3. Press the PLAY button

This will cause the DVD video player to start playback from chapter 1 of the title selected.

TITLE



Example of a title menu.



NOTICE

- You may find that some discs will not respond to this function.
- If different instructions appear on the TV screen, follow those instructions. The instructions above are describing the basic procedure where the procedures may vary depending on the contents of the DVD video disc.

LOCATING A SPECIFIC CHAPTER OR TRACK

This DVD video player allows you to locate consecutive chapters or tracks.

Press the SKIP \lll or \ggg button repeatedly to display the requested chapter or track

SKIP SKIP



The DVD video player starts playback from the selected chapter or track.

How to locate preceding chapters or tracks

- When you press the SKIP \lll button, the DVD video player starts playback from the beginning of the preceding chapter or track.



How to locate succeeding chapters or tracks

- When you press the SKIP \ggg button, the DVD video player starts playback from the beginning of the succeeding chapter or track.



Notice: On some discs the titles may not display the sub-divided chapters.

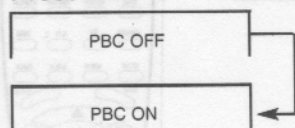
Locating a Specific Title, Chapter or Track

Continued

VIEW INDIVIDUAL CHAPTERS

1. If the VCD video disc contains different chapters, you can locate a specific chapter.

Press PBC OFF .



PBC OFF



2. If the DVD video disc contains different chapters, you can locate a specific chapter.

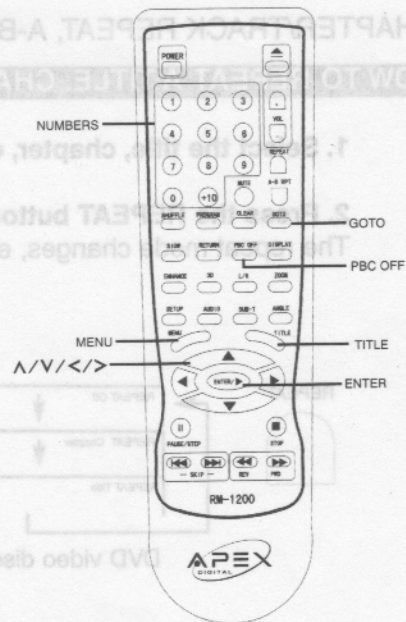
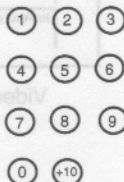
Press MENU.

3. Select chapter/track by numbers
The DVD player starts to play selected chapter.

- Return to normal playback, press PBC or MENU again.

NOTES

The DVD does not have the PBC feature, the VCD and some DVD discs do not have the menu feature.



LOCATING A TITLE

If a DVD video disc contains title numbers, you can locate a specific title by directly selecting a title number.

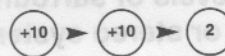
1. Press GOTO during playback

Make sure that the space next to TITLE is highlighted.

GOTO

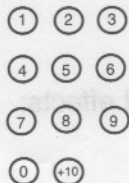


To select title 22:



2. Press numbers to select the title and chapter you want

e.g. To select title 2



Search
Time 00:00:00
Title/Chapter -- / --

3. Press ENTER button

The DVD video player starts playback from chapter 3 of the selected title 2.



NOTES

- By pressing $\Delta/V/</>$ you may shift the highlights between the TITLE and CHAPTERS.
- In order to access the GOTO function on some discs, you must first press the PBC .

Playing Repeatedly

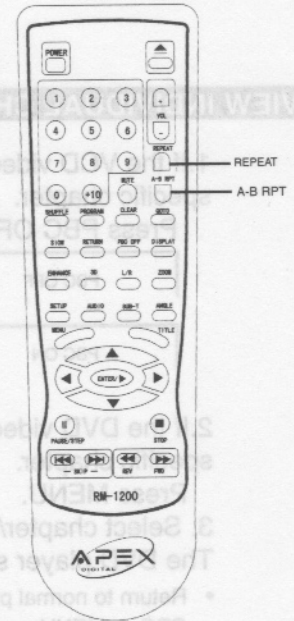
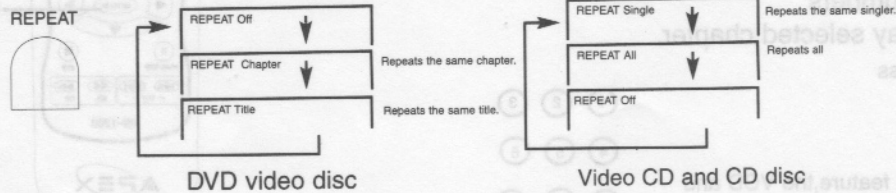
THIS DVD VIDEO PLAYER ALLOWS YOU TO PLAYBACK A SPECIFIC TITLE, CHAPTER, TRACK, OR SEGMENT REPEATEDLY. (TITLE REPEAT, CHAPTER/TRACK REPEAT, A-B REPEAT)

HOW TO REPEAT A TITLE, CHAPTER, OR TRACK

1. Select the title, chapter, or track you want to repeat

2. Press the REPEAT button

The repeat mode changes, each time you press the REPEAT button.



3D Surround

3D SURROUND SOUND EFFECTS

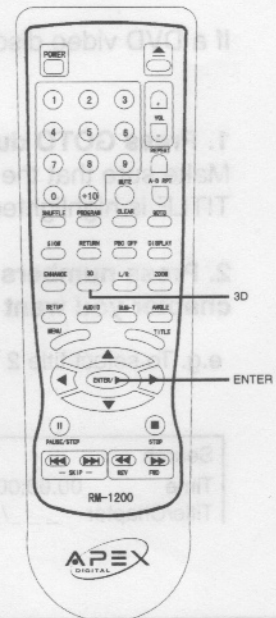
Create 3 levels of surround sound when the DVD player is connected to a stereo TV or stereo system with only 2 speakers (left/right channels).

Press 3D button, it will display as follows:

- ☐ ON
- ☐ OFF

Press L/R to select left or right channels and other sound effects:

Stereo → Left → Right → Mix

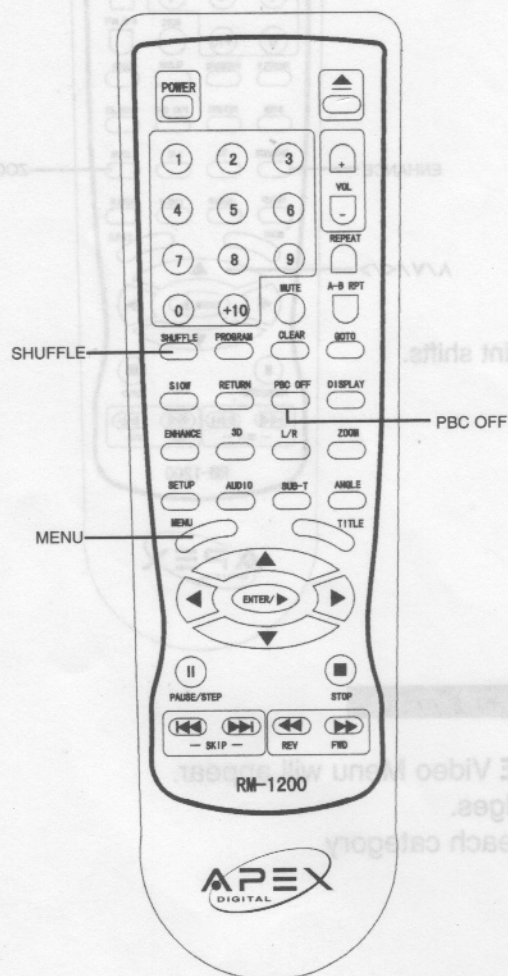


Playing in Random Order

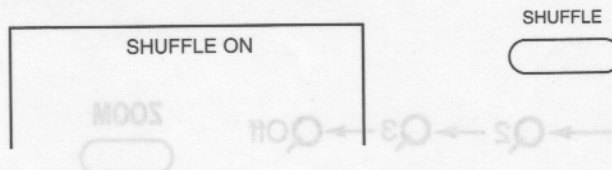
THIS DVD VIDEO PLAYER ALLOWS YOU TO PLAYBACK TITLES, CHAPTERS WITHIN A TITLE, OR TRACKS IN RANDOM ORDER. (RANDOM PLAYBACK)

PLAYING TITLES IN RANDOM ORDER

This DVD video player will automatically choose the titles in a DVD video disc and play them back randomly.



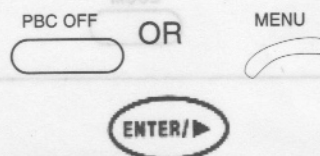
1. Press the SHUFFLE button.



The DVD video player will now start random playback.

TO RESUME NORMAL PLAYBACK.

Press PBC OFF or MENU during stop, then press PLAY.



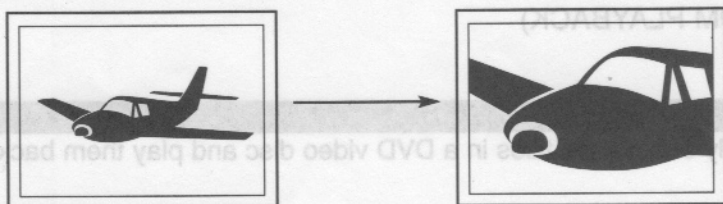
NOTICE

- While you are stopped the random playback function, it will not operate with the memory playback function.
- The DVD video player will go to another chapter or track and start playback, if you press the SKIP ►► button during random playback.

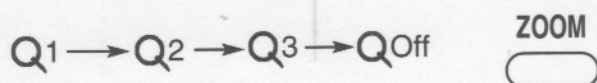
Zooming a Picture / Enhance Video Effect

ZOOMING A PICTURE

The DVD video player allows you to zoom into a picture as well as shift the zoom point.



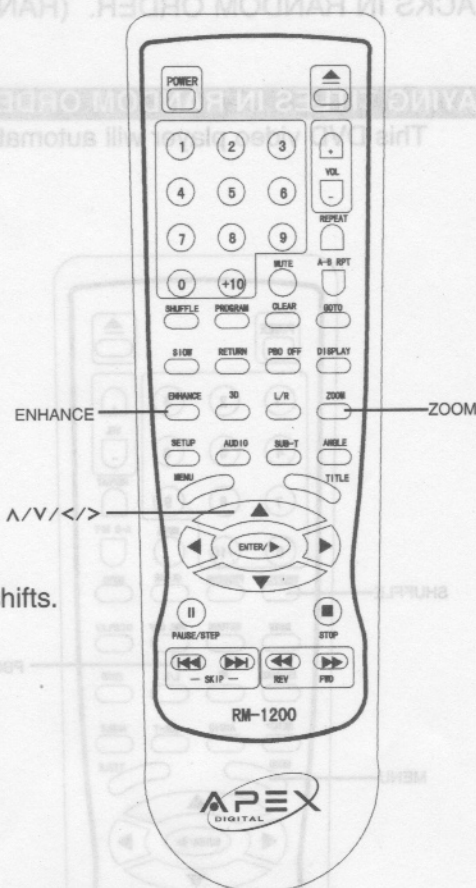
Press **ZOOM** during normal playback or slow - motion.
The DVD video player magnifies in the center of the picture.



If you press **^/V/</>** during zoom playback, the zoom point shifts.

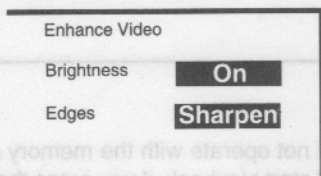
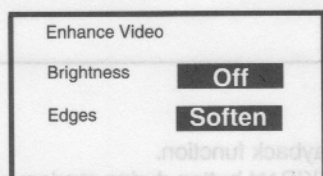


TO RESUME NORMAL PLAYBACK.
Press **ZOOM** during zoom playback.



HOW TO ADJUST THE VIDEO EFFECTS

1. Press **ENHANCE** during normal playback. The **ENHANCE** Video Menu will appear.
2. Use the **Up/Down Arrow Keys** to select Brightness or Edges.
3. Press the **ENTER** button to scroll through the features in each category.
4. Press the **ENHANCE** button again to **Exit**.



Select the Brightness(On/Off) and Edges(Soften/Sharpen) you prefer.

Playing in a Favorite Order

YOU CAN COMBINE YOUR FAVORITE TITLES, CHAPTERS, OR TRACKS AND PLAY THEM BACK IN ANY ORDER. YOU CAN PROGRAM UP TO 99 ITEMS INTO THE MEMORY. (PROGRAM PLAYBACK)

HOW TO SET TITLES, CHAPTERS, OR TRACKS IN A FAVORITE ORDER

The program playback function will automatically playback titles, chapters, or tracks in the order preprogrammed.

1. Insert a disc and then press the **PROGRAM** button during **PBC OFF**.

PROGRAM



At this time, the menu will appear.

PROGRAM			
1_ _ _	4_ _ _	7_ _ _	10_ _ _
2_ _ _	5_ _ _	8_ _ _	11_ _ _
3_ _ _	6_ _ _	9_ _ _	12_ _ _
clear All		Play Program	

2. Using the number button, select the items you want in the order you want them programmed in.

To reset program, press **CLEAR**.

CLEAR



3. Press the **PLAY** button

The DVD video player starts memory playback.

ENTER/▶

To **CHANGE** the programmed item:

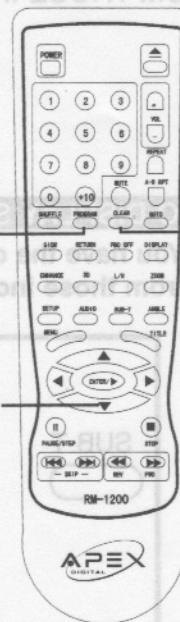
Press the **STOP** button, then follow step 1.

To **CANCEL** the programmed item:

Select **Clear All**, then press the **ENTER** button.

To **RESUME NORMAL PLAYBACK** from memory playback

Press the **PROGRAM** button Select **Clear All** then press **ENTER**. The **MEMORY** indicator will disappear. Then press **PLAY** button to the normal playback.

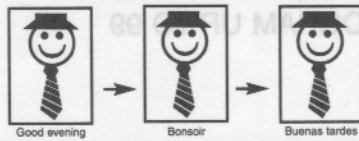


NOTICE

- When the DVD video player is turned off or if the discs are removed, the programmed item will be removed.
- Depending on the disc, the program playback may not function.

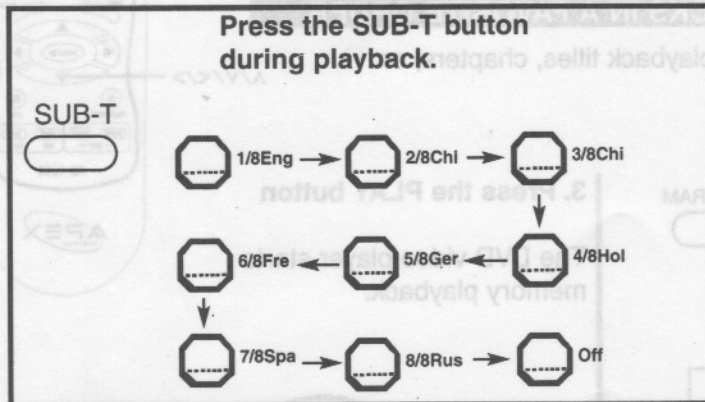
Selecting Subtitles

THIS DVD VIDEO PLAYER ALLOWS YOU TO DISPLAY THE SUBTITLES FROM THOSE INCLUDED ON THE DISC, ON TO YOUR TV SCREEN.

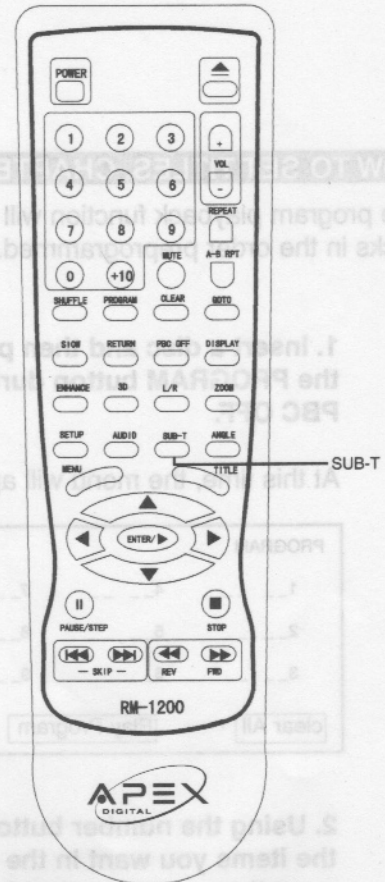
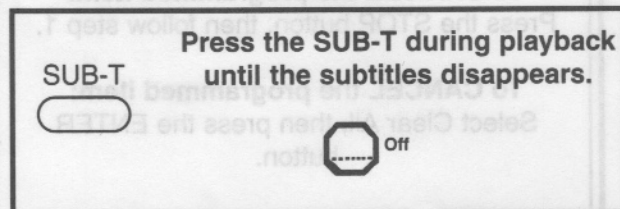


HOW TO DISPLAY SUBTITLES

You have the option to select a preferred subtitle from those included on some DVD video disc.



To TURN OFF the subtitles.

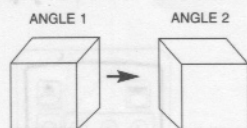


NOTICE

- Due to the nature of some DVD video discs, you may not be able to turn off the subtitles and they will appear on screen automatically.
- As you press the SUB-T button, the subtitles may not appear immediately during some scenes.
- If the subtitles continue to show on your TV even after the DVD has been turned off, please refer to the TV's close caption settings.

Selecting the Camera Angles/ Language / Audio Settings

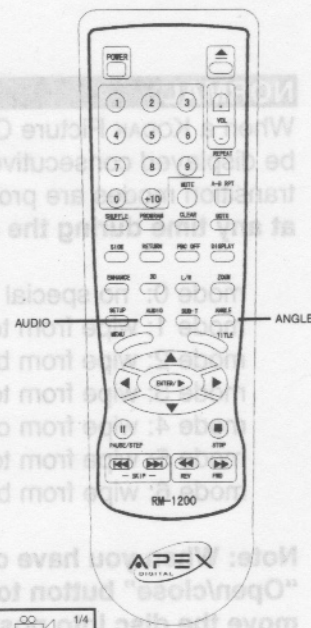
THIS DVD VIDEO PLAYER ALLOWS YOU TO SELECT FROM SEVERAL DIFFERENT ANGLES AND LANGUAGES.



Selecting the camera angle



Selecting a language



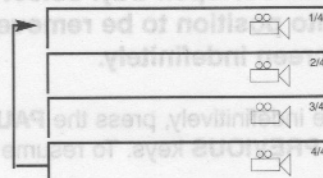
HOW TO CHANGE THE CAMERA ANGLE

If the DVD video disc was recorded using multiple angles, you have the option to change the camera angle of the scene you are watching.

Press the ANGLE button while playing back a scene recorded with multiple angles.

- You may only press the ANGLE button when the angle icon is flashing on the DVD display.
- Each time you press the ANGLE button, the angle will change.

ANGLE



NOTICE

- The angle function will not work on DVD video discs that do not contain the multiple angle features.
- During still playback, you are able to change the camera angle. However, when you resume to normal playback, the camera angle changes to the new settings.
- The angle icon indicator will illuminate while playing back a title that contains at least one scene recorded from multiple angles.

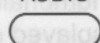
HOW TO SELECT A PLAYBACK AUDIO SETTING

This DVD video player allows you to select a preferred language and sound recording system from those included on the DVD video disc.

1. Press the AUDIO button during playback

1/2Eng [Dolby Digital] 6ch 1/2Eng [Dolby Digital] 2ch

AUDIO



Recording systems

This DVD video player uses the Dolby Digital, MPEG 2, PCM and DTS recording systems. It cannot playback DVD video discs recorded in any other recording system.

NOTICE

- The player returns to the initial default settings, when you turn on the DVD video player or replace a disc.
- The DVD video player plays a prior sound system programmed on the disc, if you select a sound system not included on the disc.

Playing Back Your KODAK Picture CD

Kodak
PICTURE CD
COMPATIBLE

NORMAL

When a KODAK Picture CD is inserted, an automated slide show is launched. Each picture in the current directory will be displayed consecutively in a slide-show fashion and will be scaled to fit most of the TV screen. Twelve slideshow transition modes are provided. Use "L/R" key to select: **Customers can set "transition" effects for every picture at any time during the slideshow.**

- mode 0: no special transition effect (by default)
- mode 1: wipe from top to bottom
- mode 2: wipe from bottom to top
- mode 3: wipe from top/bottom to center
- mode 4: wipe from center to top/bottom
- mode 5: wipe from top to bottom in two-segment
- mode 6: wipe from bottom to top in two-segment

Note: When you have completed viewing your photos, press stop, then "Open/close" button to open tray. Select a disc number button (not in use) to move the disc into position to be removed from tray, otherwise images will remain on the screen indefinitely.

To display an image indefinitely, press the **PAUSE** key. To view the Next or Previous picture press the **NEXT** or **PREVIOUS** keys. To resume the slideshow press the **ENTER** key.

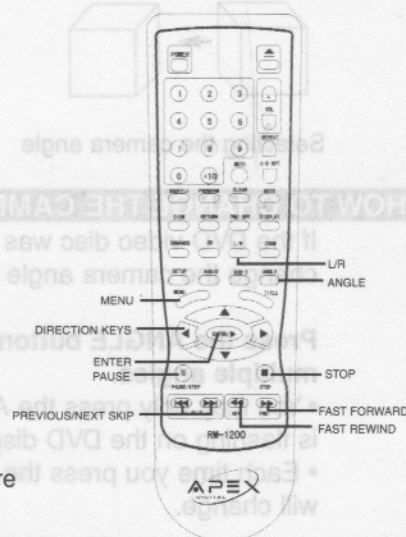


IMAGE ROTATION

There are four modes to transform: "90°", "180°", "270°", and "Normal". These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The **ANGLE** key is used to rotate the image. Each time press it, the image rotates for 90°.

REPEATING THE SLIDESHOW

At the end of your picture slideshow, each image is reduced to a "thumbnail" sized display. To view your slideshow presentation, again, press **PREVIOUS** button **once**. **Important:** Let the player complete its layout of twelve pictures before pressing **PREVIOUS** button again to view the next twelve. When at the beginning, press **ENTER** and your presentation will begin.

MENU

The **MENU** key is used to display thumbnail pictures from the stop position. After it is enabled, up to twelve scaled-down thumbnail pictures will be displayed on the screen. The **NEXT** and **PREVIOUS** keys can be used to display the **NEXT** and **PREVIOUS** twelve pictures in the current directory.

Working With Your JPEG Files



Section 1: What is a JPEG?

JPEG is short for the 'Joint Photographic Experts Group', a group of experts nominated to produce standards for continuous tone image coding.

The best known standard from JPEG is IS 10918-1 (ITU-T T.81), which is the first of a multi-part set of standards for still image compression. This allows you to create files (such as photographs, drawings, and most clip-art) that can be archived on a CD-R for viewing on the AD-1200, computer, or the web.

For more information about JPEG's, please visit www.jpeg.org

Section 1: How to Create a JPEG

Using your computer and a favorite computer software, you can create JPEG files capable of being played back on you TV Screen.

- 1) **Open** your computer software.
- 2) Locate the file menu and choose **Open**
- 3) Depending on your software, you can:

- **Open an existing file from your hard drive**
- **Open an existing file from a Disc (such as a 3.5 floppy disc)**
- **Scan an Image into your work area**

Note: If you do not have an existing file, locate the file menu and choose **New**. This will open up a blank document which you can work from.

- 4) Once your existing file is open or new file is created, you can begin making modifications to your image.

Note: You can save any file in the JPEG format.

- 5) When modifications are complete, locate your file menu and choose **Save** or **Save as**.

Note: Other saving options might be **Export**, **Export to the Web**, or **Save a Copy As**. Refer to your computer software's help menu or manual.

Once the file saving option is open, insert a file name in the "**File Name**" text box. When choosing a file name, be sure to choose a file name that you can recognize. This will allow to you to easily select the files you want to

view on each CD. Underscores and numbers are optional and may be used in the file name as well.

Example:

- **Johna_Guy_pic**
- **portfoliopic**
- **2000flowchart**

In the "**Save as Type**" drop down menu, select **JPEG** or **JPEG Interchange Format**.

Note: Most computer software automatically defaults to adding the .(dot) extension to the end of each file name. It is often best if you add the .**jpg** extension after each file name to insure universal readability.

Example:

- **Johna_Guy_pic.jpg**
- **portfoliopic.jpg**
- **2000flowchart.jpg**

- 6) After your file name and file type are choosen, click on the **Save** or **OK** button to save you file as a JPEG.

- 7) To view your JPEG files on your TV screen, burn all your files on a **CD-R disc** using your computer software. Be sure to "**close**" your CD-R session after making each CD.

Note: In order to create a CD (using a CD-R disc) you will need CDRs, CD burning software, and a CD burning computer drive. Check in the Computer Department of your local computer store for more information about CD-Rs, CD burning software, and CD burning computer drives.

SECTION 3: PLAYING YOUR JPEG FILES

Normal Slide Show Presentation

When a JPEG disc is loaded into the player, a menu will appear on screen. From the **Play Mode** shown on the menu, select the **"FOLDER"** option using your direction keys. Each picture in the current directory will be displayed consecutively in a slideshow presentation and will be seated to the most of your TV screen. Twelve slideshow "transition" modes are provided. Use **L/R** key to select.

Note: From the playmode shown on the menu you may also select the **"SINGLE"** option to view a picture indefinitely until **NEXT**, **PREVIOUS**, or **ENTER** key is selected.

- mode 0: no special transition effect (by default)
- mode 1: wipe from top to bottom
- mode 2: wipe from bottom to top
- mode 3: wipe from top/bottom to center
- mode 4: wipe from center to top/bottom
- mode 5: wipe from top to bottom in two-segment
- mode 6: wipe from bottom to top in two-segment

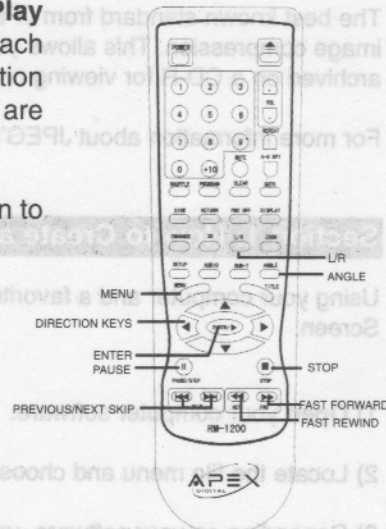


IMAGE ROTATION

There are four modes to transform: "90°", "180°", "270°", and "Normal". These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The **ANGLE** key is used to rotate the image. Each time press it, the image rotates for 90°.

ZOOM

During playing back Picture CD, it allows you to zoom in or zoom out a picture. For the first 3-times, press the **ZOOM** button the picture will be zoomed in gradually each time you press it. For the fourth and fifth press, the picture will be zoomed out gradually. For the sixth press, the picture will resume to normal scale. When one zoom scale is selected the following pictures will be played back as your selection.

MENU

The **MENU** key is used to display thumbnail pictures. From the stop position, press the **MENU** key. After it is enabled, up to twelve scaled-down thumbnails pictures will be displayed on the screen. The **NEXT** and **PREVIOUS** keys can be used to display the **NEXT** and **PREVIOUS** twelve pictures in the current directory. Each of the twelve pictures are numbered from 1-12. By pressing a number key, the corresponding picture will be enlarged to fill most of your TV screen and the digest mode will be cancelled.



Using the On-Screen Display

THE DVD VIDEO PLAYER ALLOWS YOU TO VIEW THE OPERATIONAL STATUS AND DISC INFORMATION ON YOUR TV SCREEN.

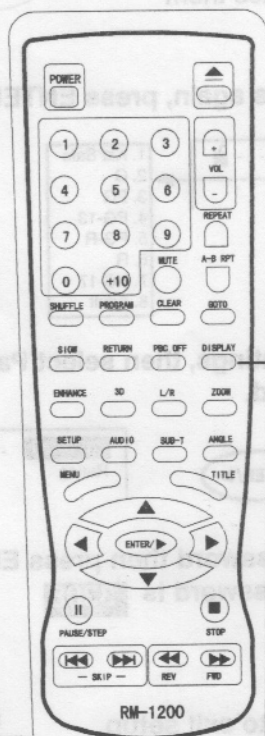
CHECKING THE OPERATIONAL STATUS

With this function, you can view on your TV, the following:

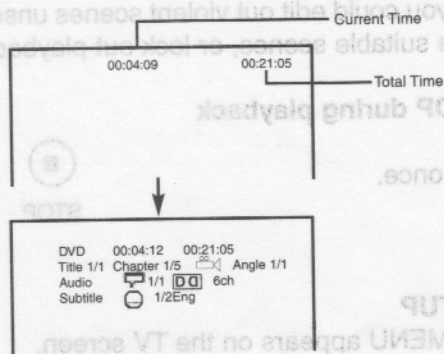
- Type of disc
- Current title
- Track number
- Total playing time
- Audio
- Subtitle
- Angle

DISPLAY

Press DISPLAY during playback



DISPLAY



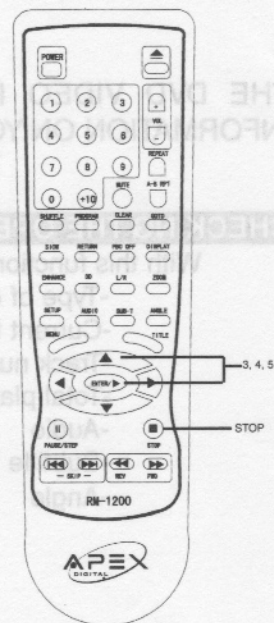
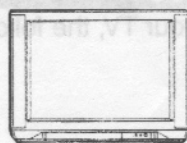
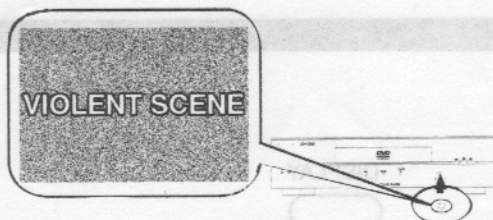
Total playing time of the disc is displayed in the DVD display.

TO TURN OFF THE ON-SCREEN DISPLAY
Press DISPLAY Again.

DISPLAY

Setting the Parental Lock

YOU CAN USE THE PARENTAL LOCK FUNCTION ONLY WITH DVD VIDEO DISCS EQUIPPED WITH THE PARENTAL LOCK FEATURE.



SETTING THE PARENTAL LOCK

DVD video discs equipped with the parental lock function are rated according to their content. The contents allowed by a parental lock level and the way a DVD video disc can be controlled may vary from disc to disc. For example, if the disc allowed, you could edit out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc all together.

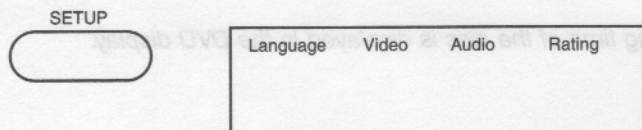
1. Press STOP during playback

Press STOP once.

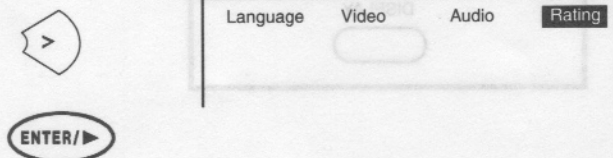


2. Press SETUP

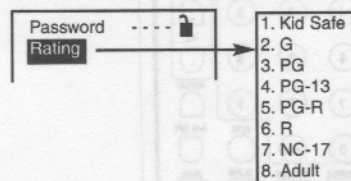
The SETUP MENU appears on the TV screen.



3. Select Rating, press ENTER



4. Select Ratings again, press ENTER

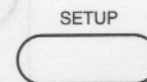


5. After select ratings, then select Password setting password.



6. Enter your password then press ENTER The pre-set password is 3308

7. Press SETUP to exit setup, press PLAY to start.

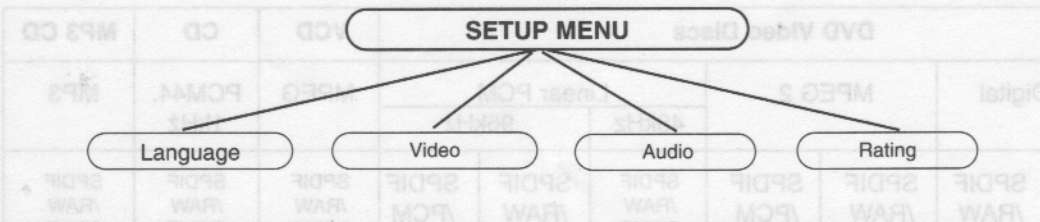
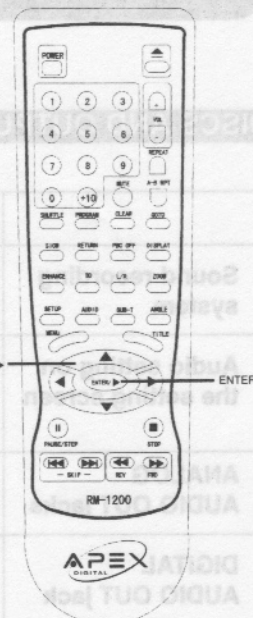


TO CHANGE YOUR PASSWORD:

1. Follow step 4 to select password.
2. Enter old password.
3. Enter new password.
4. Re-enter to confirm your new password.
5. Press ENTER.
6. Press SETUP.

Customizing the Function Settings

THIS DVD VIDEO PLAYER ALLOWS YOU TO CUSTOMIZE THE PERFORMANCE TO YOUR PERSONAL PREFERENCES.



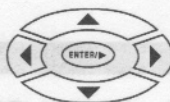
DISPLAYING THE SETUP MENU SCREEN

The SETUP MENU screen asks you to select a setting category from Language, Video, Audio and Rating. The selected category will provide you the setting details using the succeeding screen.

1. Press **SETUP**.

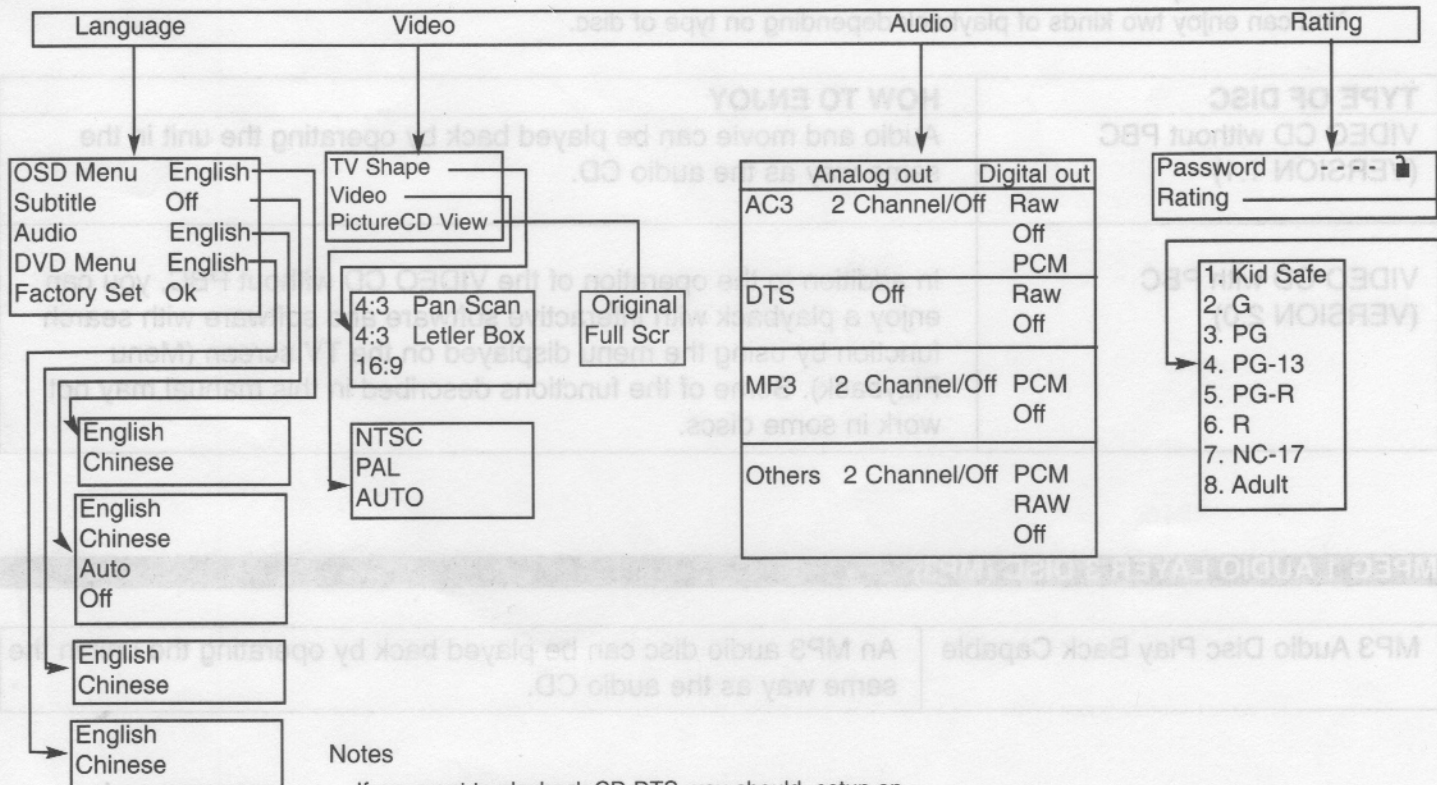
SETUP

2. Press **^/V/</>** to select category (highlight), then press **ENTER**.



3. Press **SETUP** to normal playback.

SETUP



Notes

If you want to playback CD DTS you should setup on "others" status.

Memo On Output Sounds & PBC

DISCS AND OUTPUT SOUNDS

	DVD Video Discs							VCD	CD	MP3 CD
Sound recording system	Dolby Digital		MPEG 2		Linear PCM			MPEG	PCM44.1kHz	MP3
					48kHz	96kHz				
Audio setting on the setting screen	SPDIF /RAW	SPDIF /RAW	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM
ANALOG AUDIO OUT jacks	_____	o	_____	o	_____	o	o	_____	o	o
DIGITAL AUDIO OUT jack	Dolby Digital bitstream	PCM (48kHz)	MPEG 2 bitstream	PCM (48kHz)	PCM (48kHz)	PCM (48kHz)	_____	PCM (44.1kHz)	PCM (44.1kHz)	PCM (44.1kHz)

ON VIDEO CD

This DVD video player supports the VIDEO CD with PBC (Version 2.0) (PBC is the abbreviation for Play Back Control.)

You can enjoy two kinds of playback depending on type of disc.

TYPE OF DISC	HOW TO ENJOY
VIDEO CD without PBC (VERSION 1.1)	Audio and movie can be played back by operating the unit in the same way as the audio CD.
VIDEO CD with PBC (VERSION 2.0)	In addition to the operation of the VIDEO CD without PBC, you can enjoy a playback with interactive software and software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this manual may not work in some discs.

MPEG 1 AUDIO LAYER 3 DISC (MP3)

MP3 Audio Disc Play Back Capable	An MP3 audio disc can be played back by operating the unit in the same way as the audio CD.
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Specifications

DVD VIDEO PLAYER/OUTPUTS/SUPPLIED ACCESSORIES

DVD VIDEO PLAYER

Power supply	120V AC 60 Hz
Power consumption	20VA
Mass	3.0 kg
External dimensions	320 x 81 x 320 mm (W/H/D)
Signal system	MULTI/ NTSC/ PAL
Laser	Semiconductor laser, wavelength 650 nm

OUTPUTS

Video output	1.0 V (p-p), 75 Ω , negative sync., pin jack x 1
S video output	(Y) 1.0 V (p-p), 75 Ω negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Audio output (digital audio)	0.5 V (p-p), 75 Ω , pin jack x 1
Audio output (analog audio)	2.0 V (rms), 10K Ω , pin jack(L,R) x 1

SUPPLIED ACCESSORIES

Audio cable (red and white)	1 pair
Remote control	1
Batteries (AA)	2
Video cable (yellow)	1
User's manual	1

Trouble Shooting Guide

Check the following guide for a possible correction to a problem before contacting customer service. Check FAQ at our website: www.apexdigitalinc.com/

SYMPTOMS AND CORRECTION

Symptom	Correction
No power	<ul style="list-style-type: none"> Connect the power plug into the wall outlet securely.
No picture	<ul style="list-style-type: none"> Verify the connection from the DVD video output to the TV video input. Then switch TV to appropriate mode (video 1) Connect the video cable into the jacks securely. Refer to your television owners manual.
No sound	<ul style="list-style-type: none"> Connect the audio cables into the jacks securely. Verify the connection from the DVD audio output to the TV or receiver audio input. Then switch to the appropriate source on the receiver. Refer to your audio amplifier owners manual.
Picture Appears Soft or too much edge enhancement	<ul style="list-style-type: none"> Use ENHANCE video effect feature. Refer to page 26
Black & White picture	<ul style="list-style-type: none"> Damaged S connector (bent pin)
The playback picture has occasional distortion	<ul style="list-style-type: none"> A small amount of picture distortion may appear because of a poor quality video/sound transfer to disc. This is especially true of some discs manufactured between 1997-1998. Scratched disc
Brightness is unstable or noises are produced on playback pictures	<ul style="list-style-type: none"> Connect the DVD player directly through the TV and not through any other source. What you're viewing is the effect of the copy protection circuitry required on all DVD players. If you don't have a video input on your TV, you must purchase an RF adapter from your dealer.
The DVD video player does not start playback	<ul style="list-style-type: none"> Place the disc with the graphics side up. Place the disc on the disc tray correctly inside the guide. Make sure the disc is free from scratches & fingerprints. Press the SETUP button to turn off the menu screen. Cancel the parental lock function or change the parental lock level. (The Pre-set password is 3308.) Turn the power off then disconnect the power plug and reinsert it back into the wall. Retry again. Use region 1 discs only.
MP3 won't read disc or it skips	<ul style="list-style-type: none"> Reburn disc as the software edition used may not be compatible with the player. Check web site for instruction. Use new editions of software such as Voyetra Audiostation 4, Adaptec's "Easy CD Creator" or NTI. Make sure MP3 file are not encoded with a variable bit rate such as provided by Real Networks.
The remote control does not work properly	<ul style="list-style-type: none"> Replace the batteries with new ones. Operate the remote control within about 7m.

Limited Warranty



90 DAYS LABOR

ONE YEAR REPLACEMENT OF PARTS

WHO IS COVERED?

Proof of purchase is required to receive warranty service such as the original sales receipt showing original date of purchase from an authorized Apex Digital, Inc. dealer in N. America. Keep your original box and packaging in case your unit needs to be shipped to us.

WHAT IS COVERED?

Warranty repair from the original date of purchase: One (1) year replacement of parts; 90 days limited labor warranty coverage.

If you don't have proof of purchase, your unit will be considered out-of-warranty & will be charged at a flat labor rate.

WHAT IS EXCLUDED?

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Apex Digital, Inc.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Incidental or consequential damages resulting from the product. (Some states do not allow the incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not.)

BEFORE REQUESTING SERVICE:

Check your owner's manual under "Troubleshooting Guide" and visit our website www.apexdigitalinc.com for the latest updates under FAQ.

ORDERING ACCESSORIES:

You may purchase a remote control (\$20 U.S. or \$35 in Canada), owners manual (\$7), and/ or firmware upgrade, if applicable to your player (\$10). Specify model number, name & address with a cashiers check made out to Apex Digital.

MODEL # _____ SERIAL # _____

WHERE IS SERVICE AVAILABLE?

Please contact
customer service: APEX DIGITAL, INC.
2919 E. Philadelphia St., Ontario, CA 91761
(909) 930-1239 Monday-Friday 8:30am-5:00pm (California)
email: customerservice@apexdigitalinc.com

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.



APEX DIGITAL, INC.
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Ontario, CA 91761
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www.apexdigitalinc.com